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(54) TRANSMISSION POWER CONTROLLER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a transmission power controller with which the transmission power of transmission signals to a plurality of mobile stations is controlled so as to reduce the interference of the transmission signals.

SOLUTION: This transmission power controller is composed of a total transmission power observing part 1 for observing the total transmission power transmitted from a base station to the plurality of mobile stations and outputting an observe signal, a target total transmission power setting part 2 for calculating the suitable total transmission power value of the base station and outputting it as a setting signal, and a reference updating amount operating part composed of an adder 3, multiplier 4, adder 5, delay circuit 6, limiter 7, request SIR setting part 8 and adder 9. Thus, when the total transmission power of the base station exceeds the target total transmission power, corresponding to the difference, the target SIR of the mobile station can be updated.

As a result, even when the number of mobile stations is increased and interference power is increased, the communication quality of all the mobile stations can be prevented from being uniformly degraded. Further, since the SIR of the mobile station is provided with an upper limit and transmission power can be prevented from being increased without the limit, the effect of interference power exerted upon the radio service area of the adjacent base station can be suppressed.

